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Dated: 5/2/00

gnature: (Christine Grace)

1647#

Docket No.: YU-P01-021

(PATENT)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of:

Chin et al.

Application No.: 09/840085

Confirmation No.: 2186

Filed: April 24, 2001

Art Unit: 1647

For:

DNA AND PROTEIN BINDING

Examiner: M. P. Allen

MINIATURE PROTEINS

INFORMATION DISCLOSURE STATEMENT (IDS)

MS Amendment Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Dear Sir:

Pursuant to 37 CFR 1.56, 1.97 and 1.98, the attention of the Patent and Trademark Office is hereby directed to the references listed on the attached PTO/SB/08. It is respectfully requested that the information be expressly considered during the prosecution of this application, and that the references be made of record therein and appear among the "References Cited" on any patent to issue there from.

This Information Disclosure Statement is filed more than three months after the U.S. filing date, OR more than three months after the date of entry of the national stage of a PCT application, AND after the mailing date of the first Office Action on the merits, whichever occurs first, but before the mailing date of a Final Office Action or Notice of Allowance (37 CFR 1.97(c)).

Copies of non-patent documents CA - CM1 are enclosed.

In accordance with 37 CFR 1.97(g), the filing of this Information Disclosure Statement shall not be construed to mean that a search has been made or that no other material information as defined in 37 CFR 1.56(a) exists. In accordance with 37 CFR 1.97(h), the filing of this

Application No.: 09/840085 Docket No.: YU-P01-021

Information Disclosure statement shall not be construed to be an admission that any patent, publication or other information referred to therein is "prior art" for this invention unless specifically designated as such.

It is submitted that the Information Disclosure Statement is in compliance with 37 CFR 1.98 and the Examiner is respectfully requested to consider the listed references.

Please charge our Deposit Account No. 18-1945 in the amount of \$180.00 covering the fee set forth in 37 CFR 1.17(p). The Director is hereby authorized to charge any deficiency in the fees filed, asserted to be filed or which should have been filed herewith (or with any paper hereafter filed in this application by this firm) to our Deposit Account No. 18-1945, under Order No. YU-P01-021. A duplicate copy of this paper is enclosed.

Dated: May 2, 2006

Respectfully submitted

Z. Angela Guo \

Registration No.: 54,144

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					First Named Inv	entor	Jason W.K. C	hin	
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SUBMITTED BY		1) ,	T	Registration No.	54 144	1 Telephone	(617) 95	1-7546
	Z. Angela Gu		E Comp		Registration No. (Attorney/Agent)	54,144	Telephone Date	(617) 95 May 2,	

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet	1	of	3
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	Complete if Known	
Application Number	09/840085	1
Filing Date	April 24, 2001	/
First Named Inventor	Jason W.K. Chin	7
Art Unit	1647	
Examiner Name	M.P. Allen	
Attorney Docket Number	YU-P01-021	-

			U.S. PA	TENT DOCUMENTS	
Examiner Initials*	Cite No.1	Document Number Number-Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear

	FOREIGN PATENT DOCUMENTS								
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		NON PATENT LITERATURE DOCUMENTS	
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•	CA	Akamine, P., et al., "Dynamic Features of cAMP-dependent Protein Kinase Revealed by Apoenzyme Crystal Structure," J. Mol. Biol., 327:159-171 (2003).	
	СВ	Bridges, A., "Chemical Inhibitors of Protein Kinases," Chem Rev., 101:2541-72 (2001).	
	СС	Cheng, H.C., et al., "A Potent Synthetic Peptide Inhibitor of the cAMP-dependent Protein Kinase," J. Biol. Chem., 261(3):989-992 (1986).	
	CD	Chin, J. W. and Schepartz, A., "Design and Evolution of a Miniature Bcl-2 Binding Protein", Agnew. Chem. Int. Ed., 20:3806-3809 (2001).	
_	CE	Chin, J.W., and Schepartz, A., "Concerted Evolution of Structure and Function in a Miniature Protein," J. Am. Chem. Soc., 123:2929-2930 (2001).	
	CF	Cohen, P., "The Development and Therapeutic Potential of Protein Kinase Inhibitors," Current Opinion in Chemical Biology, 3:459-465 (1999).	
	CG	Du, K., et al., "Characterization of a CREB Gain-of-Function Mutant with Constitutive Transcriptional Activity In Vivo," Mol. Cell. Biol., 20:4320-4327 (2000).	
	СН	García-Echeverría, C., et al., "Discovery of Potent Antagonists of the Interaction between Human Double Minute 2 and Tumor Supressor p53," J. Med. Chem., 43:3205-3208 (2000).	
	CI	Glass, D., et al., "Protein Kinase Inhibitor-(6-22)-amide Peptide Analogs with Standard and Nonstandard Amino Acid Substitutions for Phenylalanine 10," J. Biol. Chem., 264:14579-14584 (1989).	
31.	Cl	Glass, D., et al., "Differential and Common Recognition of the Catalytic Sites of the cGMP-dependent and cAMP-dependent Protein Kinases by Inhibitory Peptides Derived from the Heat-stable Inhibitor Protein," J. Biol. Chem., 261:12166-12171 (1986).	
	СК	Glass, D., et al., "Primary Structural Determinants Essential for Potent Inhibition of cAMP-dependent Protein Kinase by Inhibitory Peptides Corresponding to the Active Portion of the Heat-stable Inhibitor Protein," J. Biol. Chem., 264:8802-8810 (1989).	
	CL	Glover, I., et al., "Conformational Flexibility in a Small Globular Hormone: X-Ray Analysis of Avian Pancreatic Polypeptide at 0.98-Å Resolution," Biopolymers, 22:293-304 (1983).	
	СМ	Glover, I., et al., "Crystal Structure of the Heterodimeric bZIP Transcription Factor c-Fos-c-Jun Bound to DNA," Nature, 373:257-261 (1995).	
	CN	Gonzalez, G., et al., "Cyclic AMP Stimulates Somatostatin Gene Transcription by	

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501	ostitute for form 1445/45/1	,,,		Application Number	09/840085
11	NFORMATIO	N DIS	CLOSURE	Filing Date	April 24, 2001
	TATEMENT			First Named Inventor	Jason W.K. Chin
Ĭ				Art Unit	1631
	(Use as many sheets as necessary)		Examiner Name	C. Mahatan	
Sheet	2	of	2	Attorney Docket Number	YU-P01-021

	Phosphorylation of CREB at Serine 133," Cell, 59:675-680 (1989).
СО	Hashimoto, Y., et al., "Potent and Preferential Inhibition of Ca ²⁺ / Calmodulin-Dependent Protein Kinase II by K252a and its Derivative, KT5926," Biochem. Biophys. Res. Comm., 181:423-429 (1991).
СР	Johannessen, M., et al., "Synergistic Activiation of CREB-mediated Transcription by Forskolin and Phorbol Ester Requires PKC and Depends on the Glutamine-rich Q2 Transactivation Domain," Cell. Signal., 16:1187-1199 (2004).
CQ	Johnson, D., et al., "Dynamics of cAMP-Dependent Protein Kinase," Chem. Rev., 101:2243-2270 (2001).
CR	Kase, H., et al., "K-252 Compounds, Novel and Potent Inhibitors of Protein Kinase C and Cyclic Nucleotide-Dependent Protein Kinases," Biochem. Biophys. Res. Commun., 142:436-440 (1987).
CS	Kase, H., et al., "K-252a, A Potent Inhibitor of Protein Kinase C from Microbial Origin," J. Antibiot., 39:1059-1065 (1986).
СТ	Kettleborough, C., et al., "Isolation of Tumor Cell-specific Single-chain Fv from Immunized Mice Using Phage-antibody Libraries and the Re-construction of Whole Antibodies from these Antibody Fragments." Eur. J. Immunol., 24:952-958 (1994).
CU	Knighton, D., et al., "Structure of a Peptide Inhibitor Bound to the Catalytic Subunit of Cyclic Adenosine Monophosphate-Dependent Protein Kinase," Science, 253:414-420 (1991).
CV	Liljas, A., et al., "Crystal Structure of Human Carbonic Anhydrase C," Nat. New Biol., 235:131-137 (1972).
CW	Meador, W., et al., "Target Enzyme Recognition by Calmodulin: 2.4 Å Structure of a Calmodulin-Peptide Complex," Science, 257:1251-1255 (1992).
СХ	Mestas, S. and Lumb, K., "Electrostatic Contribution of Phosphorylation to the Stability of the CREB-CBP Activator-Coactivator Complex," Nat. Struct. Biol., 6:613-614 (1999).
CY	Miller, W. T., "Double Trouble," Nat. Struct. Biol., 8:16-18 (2001).
CZ	Munson, P., et al., "An Exact Correction to the 'Cheng-Prusoff' Correction," J. Recept. Res., 8:533-546 (1988).
CA1	Parker, D., et al., "Role of Secondary Structure in Discrimination between Constitutive and Inducible Activators." Mol. Cell Biol., 19:5601-5607 (1999).
CB1	Parker, D., et al., "Analysis of an Activator: Coactivator Complex Reveals an Essential Role for Secondary Structure in Transcriptional Activation," Mol. Cell., 2:353-359 (1998).
CC1	Prade, L., et al., "Staurosporine-induced Conformational Changes of cAMP-dependent Protein Kinase Catalytic Subunit Explain Inhibitory Potential," Structure, 5:1627-1637 (1997).
CD1	Rutledge, S. et al., "Molecular Recognition of Protein Surfaces: High Affinity Ligands for the CBP KIX Domain." J. Am. Chem. Soc., 125:14336-14347 (2003).
CE1	Scapin, G., "Structural Biology in Drug Design: Selective Protein Kinase Inhibitors," Drug Discov, Today, 7:601-611 (2002).
CF1	Tapley, P., et al., "K252a is a Selective Inhibitor of the Tyrosine Protein Kinase Activity of the <i>trk</i> Family of Oncogenes and Neurotrophin Receptors," Oncogene, 7:371-381 (1992).
CG1	Weiss, M., et al., "Folding Transition in the DNA-binding Domain of GCN4 on Specific Binding to DNA." Nature. 347:575-578 (1990).
CH1	Whitehouse, S., et al., "Studies on the Kinetic Mechanism of the Catalytic Subunit of the cAMP-dependent Protein Kinase." J. Biol. Chem., 258:3693-3701 (1983).
CI1	Wu, X., et al., "The p53-mdm-2 Autoregulatory Feedback Loop," J. Genes Dev., 7:1126-1132 (1993).
CJ1	Zhang, Z., et al., "Selection and Application of Peptide-binding Peptides," Nat. Biotech., 18:71-74 (2000).
CK1	Zheng, J., et al., "A Refined Crystal Structure of the Catalytic Subunit of cAMP-Dependent Protein Kinase Complexed with MnATP and a Peptide Inhibitor," Acta Cryst., D49:362-365 (1993).



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		_		Application Number	09/840085
11	NFORMATION	I DI	SCLOSURE	Filing Date	April 24, 2001
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				Art Unit	1631
	(Use as many she	eets as	necessary)	Examiner Name	C. Mahatan
Sheet	Sheet 3 of 2			Attomey Docket Number	YU-P01-021

CL1	Zimmermann, J., et al., "Potent and Selective Inhibitors of the ABL-Kinase: Phenylamino- Pyrimidine (PAP) Derivatives," Bioorg. Med. Chem. Lett., 7:187-192 (1997).	
CM1	Zor, T., et al., "Roles of Phosphorylation and Helix Propensity in the Binding of the KIX Domain of CREB-binding Protein by Constitutive (c-Myb) and Inducible (CREB) Activators," J. Biol. Chem., 277:42241-42248 (2002).	

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